SIEMENS

Siremobil Iso-C 3D Option

SP

Service Instructions SP034/03/R

Title: Option 3D, SW Update VB00D / VC00B

Reason for Update:

[X] Reliability

Urgency:	[ ] Immediate	[X] Within	12 months
Update material required?	[X] Yes	[ ] No	
Materials free of charge?	[X] Yes	[ ] No	
Return of parts?	[ ] Yes	[X] No	
Estimated completion time:	2.5 hours	Number of CSE's: 1	
Customer application training?	[ ] Yes	[X] No	

[ ] Required for all systems under warranty or covered by service contract.
[X] Required for all affected systems.

Systems/Products affected/System identifying IVK

Name	Material No.	Serial No.
SIREMOBIL Iso-C	28 29 450 G5464	n.a.

Components affected/to be modified/IVK

Name	Material No.	Serial No.	Component status Affected
Option 3D Image	56 46 950 G5486	01001 - 01193, 01195-01197, 01200	n.a.

Remark: n.a.

Chg. Ref. No.: 130 013
Name: Arnold
Dept.: CS PS 24

© Siemens AG 2003
The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

Print No.: SPR2-230.898.03.01.02 Doc. Gen. Date: 12.03

Replaces: SPR2-230.898.01.01.02 Version 2.1; January 14, 2003

Chapter	Page	Revision
all	all	01

Document Revision Level

This document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

The installation and service of equipment described herein is to be performed by qualified personnel who are employed by Siemens or one of its affiliates or who are otherwise authorized by Siemens or one of its affiliates to provide such service.

Assemblers and other persons who are not employed by or otherwise directly affiliated with or authorized by Siemens or one of its affiliates are directed to contact one of the local offices of Siemens or one of its affiliates before attempting installation or service procedures.

Contents 0 - 3

Page

1 General Information 1 - 1

Systems/Products Affected . . . 1 - 1
Reason for the Update . . . 1 - 1
Prerequisites . . . 1 - 1
Special Tools / Documents . . . 1 - 1
Ordering Information . . . 1 - 2
Contents of the Update Kit . . . 1 - 2
Return of Parts . . . 1 - 2

2 Work Steps 2 - 1

Work flow . . . 2 - 1
Backup * . . . 2 - 2
MEMOSKOP Software Update . . . 2 - 5
Software . . . 2 - 5
Flow Chart MEMOSKOP software update . . . 2 - 5
Prerequisites . . . 2 - 6
Covers . . . 2 - 6
Saving the MEMOSKOP parameters to diskette . . . 2 - 7
Download MEMOSKOP software . . . 2 - 9
Download MEMOSKOP with empty Flash Proms . . . 2 - 11
SIREMOBIL Iso-C 3D Software * . . . 2 - 13
Installing the SIREMOBIL Iso-C 3D Software . . . 2 - 13
Start of the Syngo service software . . . 2 - 15
Restore . . . 2 - 17
Monitor settings * . . . 2 - 18
Connectors * . . . 2 - 22
Control software * . . . 2 - 22
Manual Settings * . . . 2 - 23
User Interface Language (not necessary for English) * . . . 2 - 23
Country-specific Keyboard Layout (necessary for non US-Keyboard) * . . . 2 - 24
Installation of the MSBLAST Hotfix . . . 2 - 25
Final work steps . . . 2 - 25
Covers . . . 2 - 25
System and safety tests . . . 2 - 25
Customer Information . . . 2 - 25

3 Update Completion Form 3 - 1

Completion Protocol / Update Completion Form . . . 3 - 1

Contents

Page

Systems/Products Affected

All SIREMOBIL ISO-C systems, delivered or upgraded with the Option 3D Reconstruction.

Reason for the Update

Improvement of the software, Bugfix MEMOSKOP 3D selection.

Prerequisites

NOTE

This Service Instruction SP034/03/R replaces the withdrawn Service Instruction SP029/03/R.
If the work, described in the withdrawn Service Instruction SP029/03/R has not been performed for the existing system, do not install it. Perform the work steps of this SI SP034/03/R.
If the work, described in the withdrawn Service Instruction SP029/03/R were performed for the existing system, all work steps, described in this SI have to be performed.

NOTE

After the 3D reconstruction software was reloaded, the MSBLAST Hotfix installation must be performed again.
Use the SI SP023/03/R and install the Hotfix.

Because the 3D reconstruction software is new installed, the section "Checking for Virus / Worm" (page 4 of the SI SP023/03/R) can be skipped.

Special Tools / Documents

Service PC	Operating system Windows 95 / 98
Service cable for PC	e.g. 99 00 440
1 set of X-ray filters,10 x 0.3 mm	e.g. 44 06 120
17 mm Cu filter	e.g. 11 67 662
Resolution test	e.g. 28 71 820
Dynamic range test kit	e.g. 37 90 156
Protective conductor meter	e.g. 44 15 899
or Bender Safety Tester	97 06 979
SIREMOBIL ISO-C Service Instructions	SPR2-230.061.01.03.
Speed Info Password list SIREMOBIL Iso-C	R141-97
Service Instructions SP023/03/R	SPR2-230.898.02.01.02
MSBLAST Hotfix on Floppy disk or CD-R	(downloaded from Intranet, see SP023/03/R)
1 blank CD-ROM	
Image Quality Quick Test (refer to the SIREMOBIL log book)	SPR2-230.037.01.05
Calibration service case	75 51 620

Ordering Information

The following update kit has to be ordered from CSML (SAP Distribution Channel, factory 2050) or BU Logistics (factory BU) (only with an order via BU Logistics):

Update Kit **71 40 978**

List the system serial number on the order!

Contents of the Update Kit

NOTE

The Service Instructions SP034/03/R replaces the withdrawn Service Instructions SP029/03/R.

The new Update Kits 71 40 978 includes the MEMOSKOP C-3D and MEMOSKOP C-SUB-3D software version VC01H and two 3D Software versions for the 3D reconstructions PC Celsius 650 and Celsius 444.

The MEMOSKOP SW version VB00D works in combination with both types of 3D PC (Celsius 650 and Celsius 444).

The update kit 71 40 978 contains the following parts:

Item	Quan.	Part No.	Name
1	1	31 00 828	SW Memoskop C-3D **VC01H**
2	1	31 00 802	SW Memoskop C-SUB-3D **VC01H**
3	1	71 39 814	3D Software VB00D for 3D PC Celsius 650, part no. 71 29 013
4	1	75 38 999	3D Software VC00B for 3D PC Celsius 444, part no. 77 14 145
5	1	71 39 913	Control-SW VB00B
6	1	SPR2-230.898.03.01	Update instructions

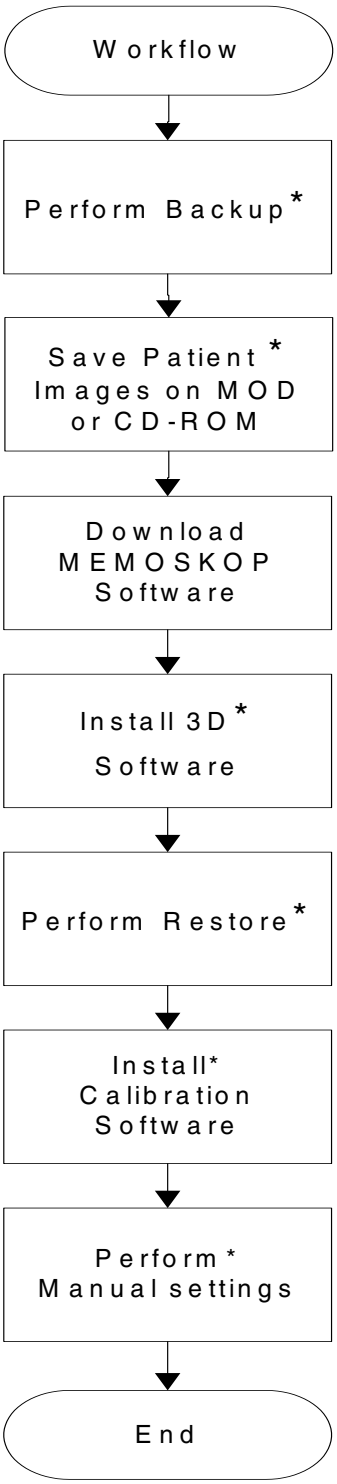
Tab. 1

Based on the above description, the CSE should be able to check the update kit for completeness prior to beginning the update.

Return of Parts

n.a.

Work flow

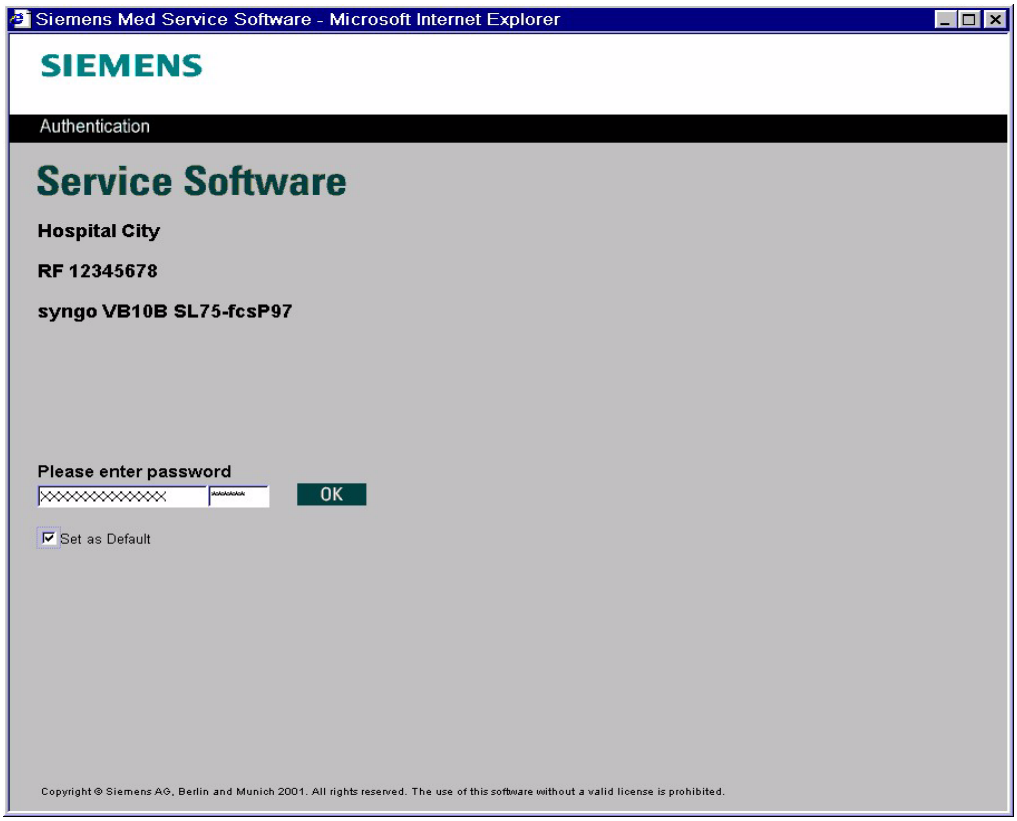


* See note in section "Prerequisites", page 1-1.

Backup *

NOTE	**A backup is always necessary after software updates or system adjustment steps.**

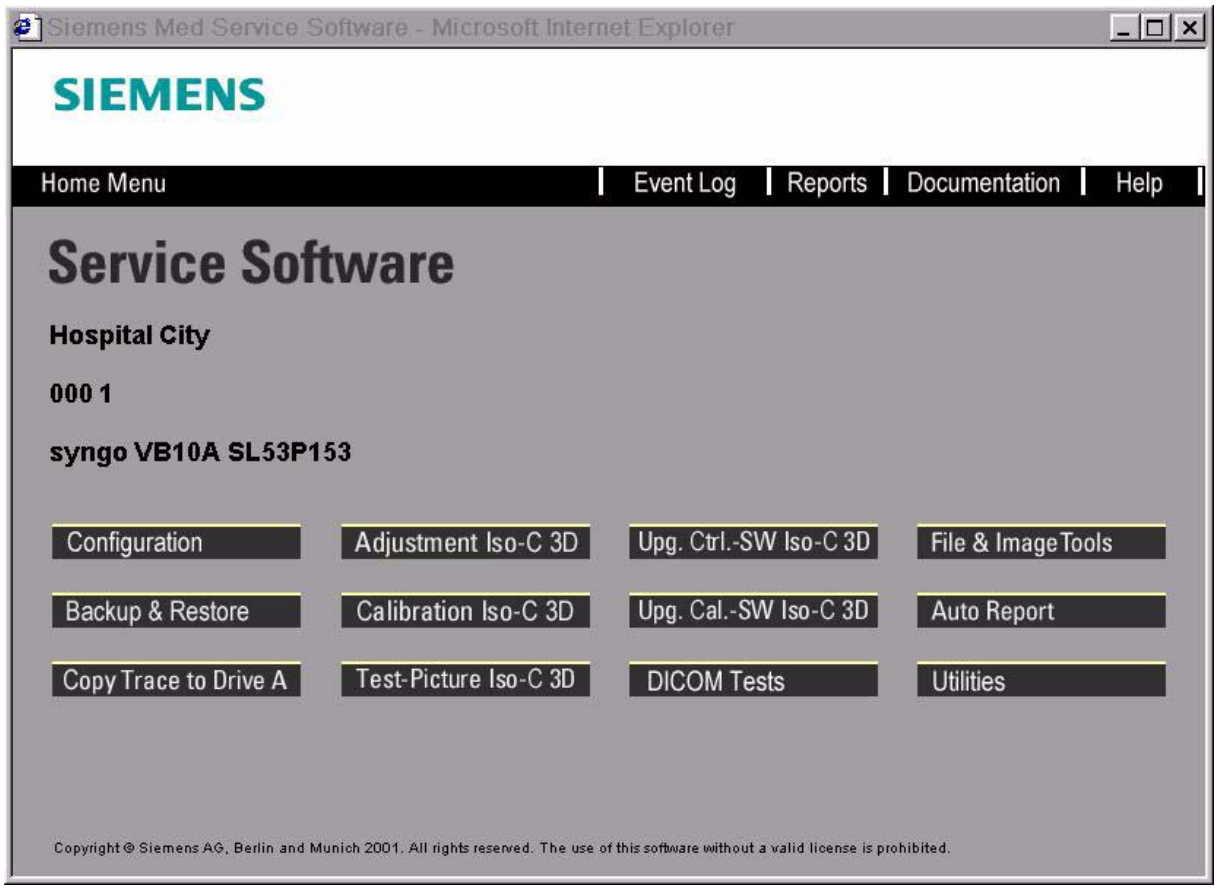
- From the Syngo User Interface, please select “**Options>>Local Service**” in the window menu header.


Siemens Med Service Software - Microsoft Internet Explorer
SIEMENS
Authentication
Service Software
Hospital City
RF 12345678
syngo VB10B SL75-fcsP97
Please enter password
OK
Set as Default
Copyright © Siemens AG, Berlin and Munich 2001. All rights reserved. The use of this software without a valid license is prohibited.

- Enter the service key (6 characters in 2nd mask).
- Confirm with <OK>.

* See note in section "Prerequisites", page 1-1.

- The Service Home menu appears.



- Select **"Backup & Restore".**
- Insert the BACKUP CD-ROM into the CD-R drive.

➪ The following window appears:

- In the “Command” selection menu, select “Backup”.
- For “Drives”, select the CD-R storage medium.
- The corresponding package is selected in “Packages”.
  Select the Package "SW Settings02" and save with "GO".
- Exit the window with “Home”.
- Remove the backup CD-ROM from the CD-R drive.

NOTE	**A backup of the database (patient images) does not function!** **Only the following is possible:** **Saving the patient images to a MOD or CD-R.**

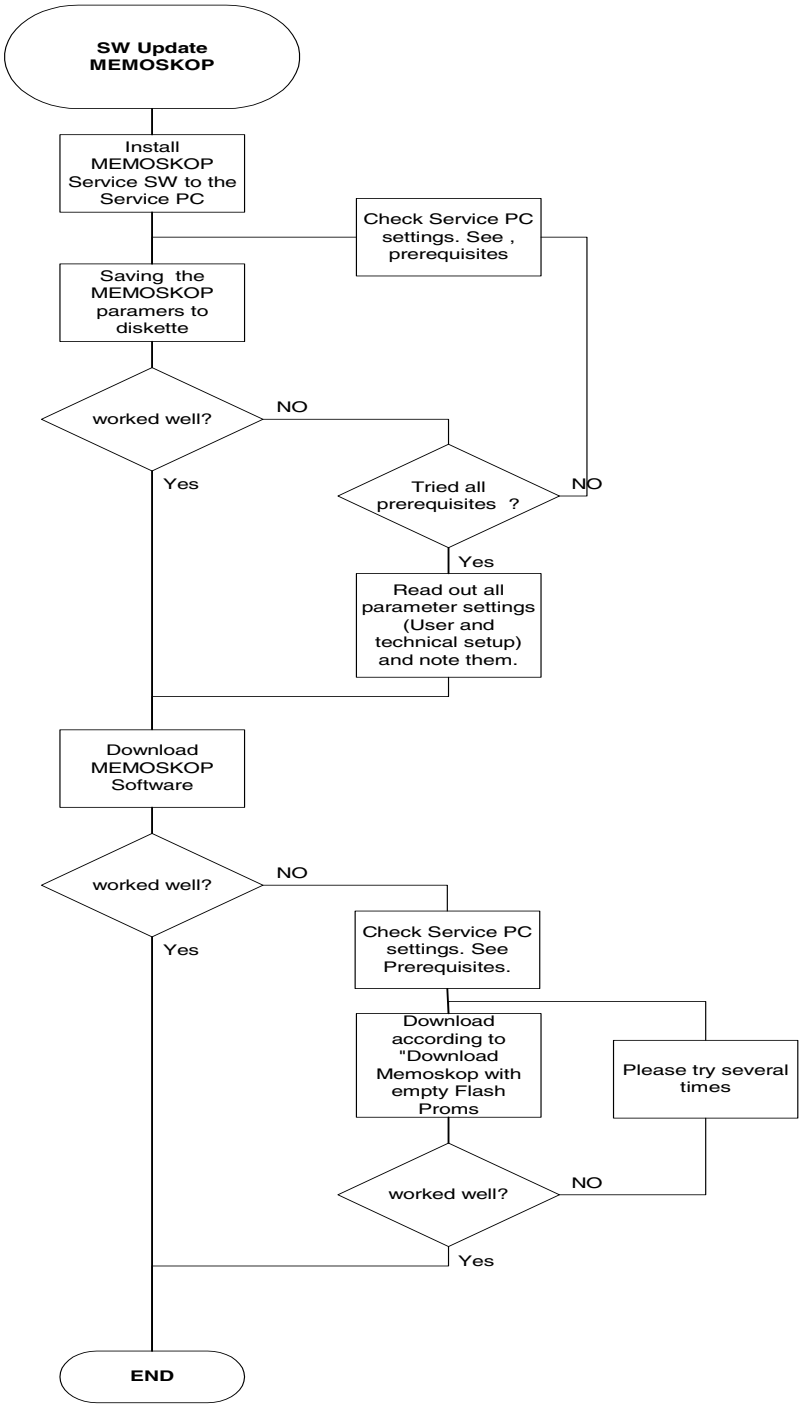
MEMOSKOP Software Update

Software

for MEMOSKOP C-Sub 31 00 802 G5437
for MEMOSKOP C 31 00 828 G5437

Flow Chart MEMOSKOP software update

The flow chart SW update MEMOSKOP shows only the main working steps. In the case of problems during the MEMOSKOP software update, please follow the path of the flow chart.



Prerequisites

NOTE	Please pay attention to the service PC settings.

- Do not use the incompatible service PC "SCENIC MOBILE 350".

Before starting with the software updates, please observe the points mentioned below:

- The used serial interface cable must be fully wired between SIREMOBIL Iso-C and the service PC.
- Switch off the screen saver and end any programs running in the background.
- Check the jumpers D1.X95 / D1.X96 / D1.X 99. These should be set to position 2-3.
- Check the serial port FIFO settings of your service PC. The FIFO of the serial port must be enabled (default settings).
- In the case of correct host communication, but poor MEMOSKOP communication, temporarily switch D1.S3.2 to position ON. Ignore the error messages displayed at the SIREMOBIL user console. Ignore the MEMOSKOP service software error message "No communication with the X-ray system" and close Error message by clicking the "Ignore" button. Select the correct type of MEMOSKOP and start the necessary service work. After completion of the MEMOSKOP service work, switch D1.S3.2 back to OFF.

Covers

- Remove the back cover from the monitor trolley (important for installing MEMOSKOP software).

Saving the MEMOSKOP parameters to diskette

NOTE	**Please pay attention to the prerequisites.**
NOTE	**Before starting the download of the MEMOSKOP, save the parameters to diskette. In the case of transfer problems, saving them, read the prerequisites .** **Follow the flow chart in section "Flow Chart MEMOSKOP software update".** **If the parameter set can't be stored on the diskette, read out the MEMOSKOP parameters (User setup and Technical setup) and note them manually.**
NOTE	**If a transfer error or error messages with "ComPort", "Download", "Get from Memoskop", "Put to Memoskop" and when loading the language file still occur, please repeat this function several times. If the problem persists, then exit the service software.** **Switch SIREMOBIL off and then on again, wait for power-up and start the service software again. Perform the last work step again.**
NOTE	**Before using the host service software or MEMOSKOP service software, the write protection of the corresponding parameter diskettes have to be switched off**

- Insert the MEMOSKOP diskette "User Programs" into the service PC, drive A.
- Start the MEMOSKOP service software.
- Enter the password and press the Return key on the service PC.
- Select the required serial interface on the service PC.

- The program window "Memoskop Service Program" (Fig. 3) is then displayed.

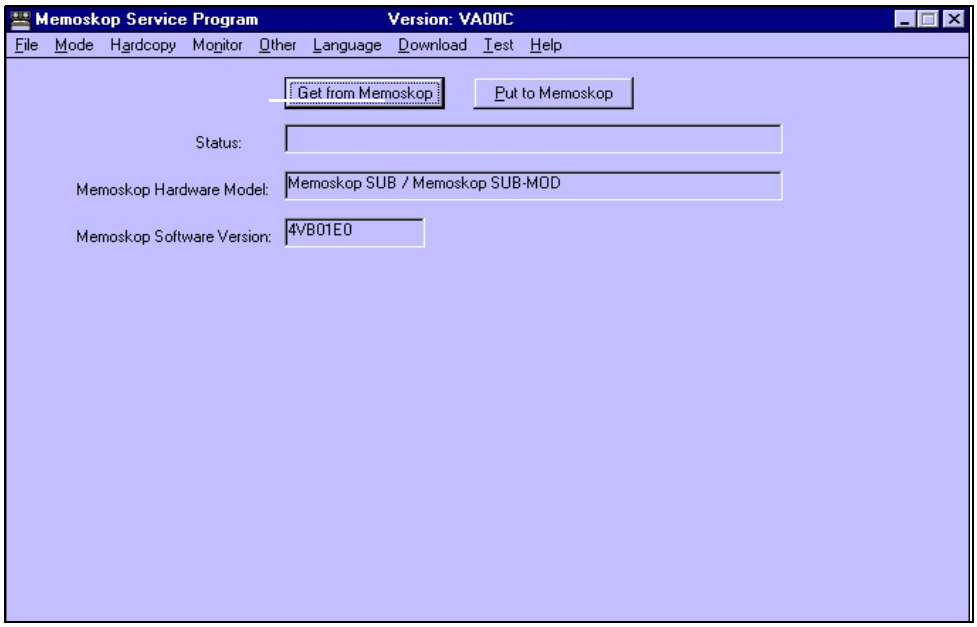


Fig. 1

- After the main menu appears, click on the "Get from Memoskop" button and wait until the parameters have been transferred from the MEMOSKOP to the PC. After the transfer, the status line shows "....Receiving configuration done"
- Then save the parameters to the diskette (menu "File", submenu "Save").
- For the file name, enter the actual date. The file extension should be "mem".

Example:

The current date is: (DD_MM_YY) 24_12_03

Enter the file name+file extension: 24_12_03.mem

- Wait for the parameters to be saved on diskette.

NOTE	**If errors occur during the transfer of the MEMOSKOP parameters to the service PC (e.g. communication errors), read the prerequisites.**

NOTE	**If the MEMOSKOP service program must be started again, the unit must also be switched off and on again.**

- If the storage of the MEMOSKOP parameter set to diskette is not possible, all parameters (User setup and technical setup) must be read and noted manually.

Download MEMOSKOP software

NOTICE

If errors occur during download of the MEMOSKOP software (e.g. communication errors) read the prerequisites.

In this case, stop the download procedure and try download as described in section "Download MEMOSKOP with empty Flash Proms" if needed again.

- For the MEMOSKOP displayed insert the corresponding diskette supplied into drive A of the service PC (MEMOSKOP software).
- Select the "Download" menu.
- Select "Select file for Download:".
- The program window "Open File" opens.
- Select drive A.
- Select the file xVC0xxx.mot and confirm the selection with "OK".

(first x = 3 or 4, depending on existing MEMOSKOP. See note below.)

3	MEMOSKOP C-E 100 MEMOSKOP C MEMOSKOP C-MOD	Select 3VC01H0.mot
4	MEMOSKOP CSUB MEMOSKOP C-SUB &MOD	Select 4VC01H0.mot

NOTE

If the service program is not able to recognize the MEMOSKOP installed automatically, select the type of MEMOSKOP manually.
For MEMOSKOP C-E 100, MEMOSKOP C and MEMOSKOP C-MOD, select model 3.
For MEMOSKOP C-SUB and MEMOSKOP C-SUB & MOD, select model 4

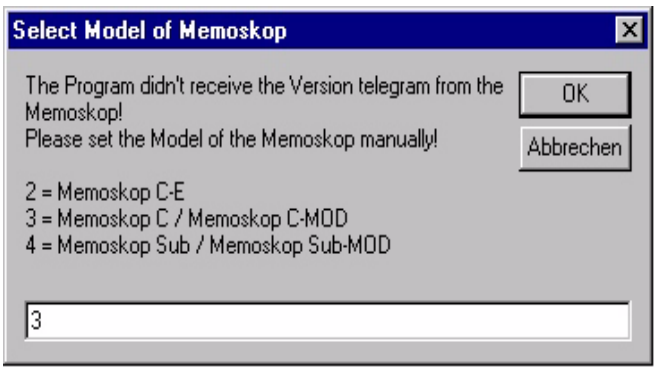

Select Model of Memoskop
The Program didn't receive the Version telegram from the Memoskop!
Please set the Model of the Memoskop manually!
OK
Abbrechen
2 = Memoskop C-E
3 = Memoskop C / Memoskop C-MOD
4 = Memoskop Sub / Memoskop Sub-MOD
3

Fig. 2

- Select "Erase FLASHes" .
  - ➪ While the Flash Proms are being erased, dots will be displayed in the status line.
  - ➪ After erasing, the "...Ready" message will be displayed in the status line.
  - ➪ The DOWNLOAD button is now selectable.

NOTE	**The "Download File" button must be pressed (clicked) within 120 seconds maximum!**

- Select "Download File" .

NOTE	**It will take approximately 20 minutes to load the new MEMOSKOP software.**

- After successful completion of the Download, the "Download complete" message will be displayed in the status line.

NOTE	**If the Download is not performed completely (communication errors or undefined symbols in the status line), stop the download procedure and follow the description in section "Download MEMOSKOP with empty Flash Proms".**

- Exit the Service program.
- Switch the unit off .

Download MEMOSKOP with empty Flash Proms

NOTE	**This section describes the downloading procedure for the MEMOSKOP with empty Flash Proms. If downloading as described in the previous section could be carried out successfully, skip this section.**

- Switch the unit off and exit the Memoskop service program.
- The cover of the basic unit and the rear cover of the monitor trolley are removed.
- Set the service switch D1.S3.2 to the ON position.
- Switch on the unit. Ignore the error messages displayed at the user console.
- Insert the corresponding diskette supplied into drive A of the service PC (MEMOSKOP software).
- Start the MEMOSKOP service program and enter the password.
- Select the service PC serial interface.
- Ignore the message "No communication with the X-Ray system by clicking the "Ignore" button.
- For the error message "The Program didn't receive the version message from the MEMOSKOP", manually select the MEMOSKOP model.

3 MEMOSKOP C-E 100
MEMOSKOP C
MEMOSKOP C-MOD

4 MEMOSKOP C-SUB
MEMOSKOP C-SUB & MOD

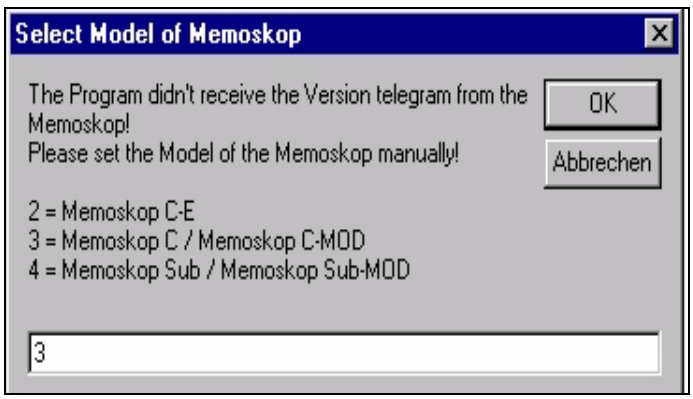

Select Model of Memoskop
The Program didn't receive the Version telegram from the Memoskop!
Please set the Model of the Memoskop manually!
OK
Abbrechen
2 = Memoskop C-E
3 = Memoskop C / Memoskop C-MOD
4 = Memoskop Sub / Memoskop Sub-MOD
3

Fig. 3

- Select the "Download" menu.
- Select "Select file for Download:".
- The program window "Open File" opens.
- Select drive A.

- Select the file xVC0xxx.mot (Fig.and confirm selection with "OK".
  (first x =3 or 4, depending on existing MEMOSKOP. See below.)

3	MEMOSKOP C-E 100 MEMOSKOP C MEMOSKOP C-MOD	Select 3VC01H0.mot
4	MEMOSKOP C-SUB MEMOSKOP C-SUB & MOD	Select 4VC01H0.mot

- Select "Erase FLASHes" .
- Press the reset button on the back of the MEMOSKOP for 4 seconds as soon as possible.
  - ➪ While the Flash Proms are being erased, dots are displayed in the status line.
  - ➪ After erasing, the "...Ready" message is displayed in the status line.
  - ➪ The DOWNLOAD button is now selectable.

NOTE

The "Download File" button must be pressed (clicked) within 120 seconds maximum!

- Select "Download File" .

NOTE

It will take approximately 20 minutes to load the new MEMOSKOP software.

- After successful completion of the download, the "Download complete" message is displayed in the status line.
- Wait until the MEMOSKOP has rebooted.
- Exit the Service program.
- Switch off the unit.
- Switch the service switch D1.S3.2 back to the OFF position.
- Switch the unit on (wait for entire power-up sequence) .

NOTE

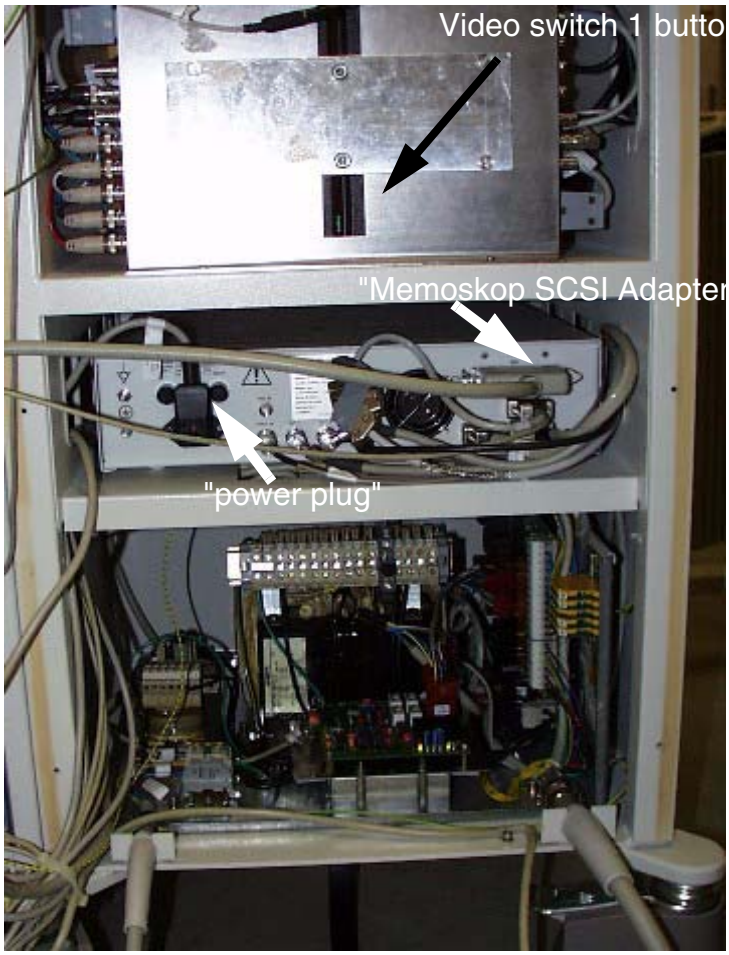
If the download is not performed completely (communication errors or undefined symbols in the status line), read the pre-requisites.

Stop the download procedure, end the Memoskop service program, switch off the unit and repeat the download procedure as described in section "Download with empty Flash Proms".

SIREMOBIL Iso-C 3D Software *

Installing the SIREMOBIL Iso-C 3D Software

- The SIREMOBIL Iso-C is still running.
- With 3D reconstructions PC Celsius 650, part no. 71 29 013, insert the CD with part no.71 39 814 ("3D Software") into the CD-R drive.
- With 3D reconstructions PC Celsius 444, part no. 77 14 145, insert the CD with part no. 75 38 999 ("3D Software") into the CD-R drive.
- Shut down the SIREMOBIL Iso-C and wait until power is off.



- Disconnect the "Memoskop SCSI Adapter" plug from the PC.
- Disconnect the "power plug" from the MEMOSKOP.
- Release the video switch 1 button (to the left as viewed from the back of the monitor), the switch should not be pressed.

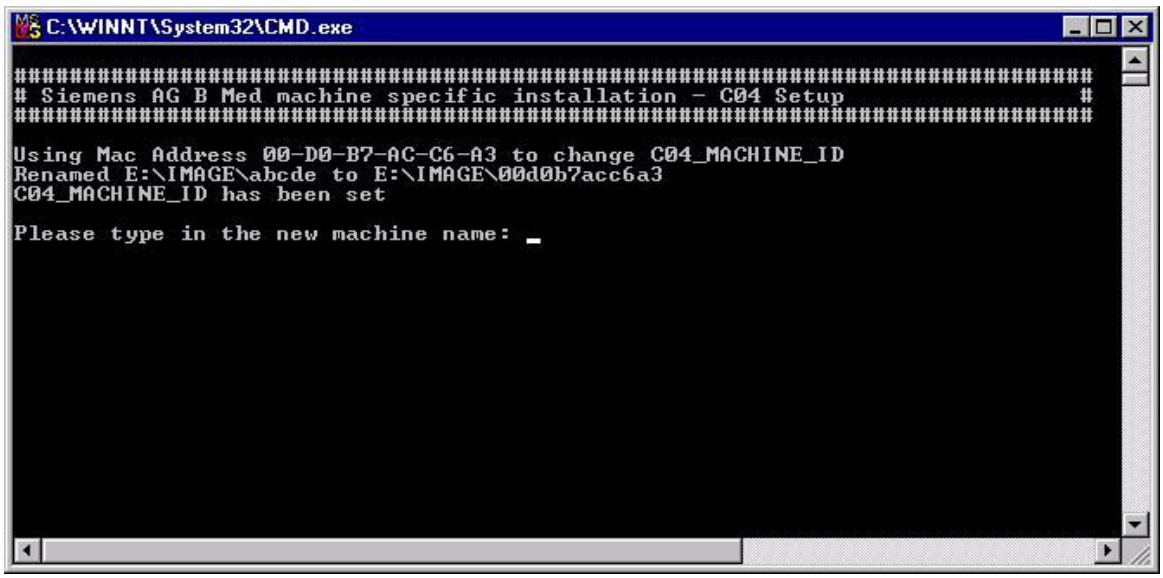
* See note in section "Prerequisites", page 1-1.

- Disconnect the "DICOM Network Plug" from the 3D PC.
- Connect the Dongle, if not already connected.
- Restart the SIREMOBIL Iso-C.
  - ➪ The PC will start automatically. The start-up can be viewed on the right monitor.
  - ➪ After approx. 15 minutes, the following message will appear on the monitor.

= Installation complete …==========
	System and image partition were set up.	
	Please make sure there is no disk in the floppy drive	
	(Press any key to reboot the system now)	
	IMPORTANT : While the system is rebooting, eject	
	the CD-ROM and remove it from the drive !	
==========

- Press the space key and remove the CD. The 3D PC will reboot.
- Wait till the PC bios messages are visible at the monitor, open the CD-ROM drive and remove the CD-ROM.

- Wait until the following screen appears.
  Ignore the message concerning monitor settings.


C:\WINNT\System32\CMD.exe
Siemens AG B Med machine specific installation - C04 Setup
Using Mac Address 00-D0-B7-AC-C6-A3 to change C04_MACHINE_ID
Renamed E:\IMAGE\abcde to E:\IMAGE\00d0b7acc6a3
C04_MACHINE_ID has been set
Please type in the new machine name:

- Enter the 3D PC name.
- Press the "Enter" key 2x.

  ⇨ The computer will shut down and restart automatically.

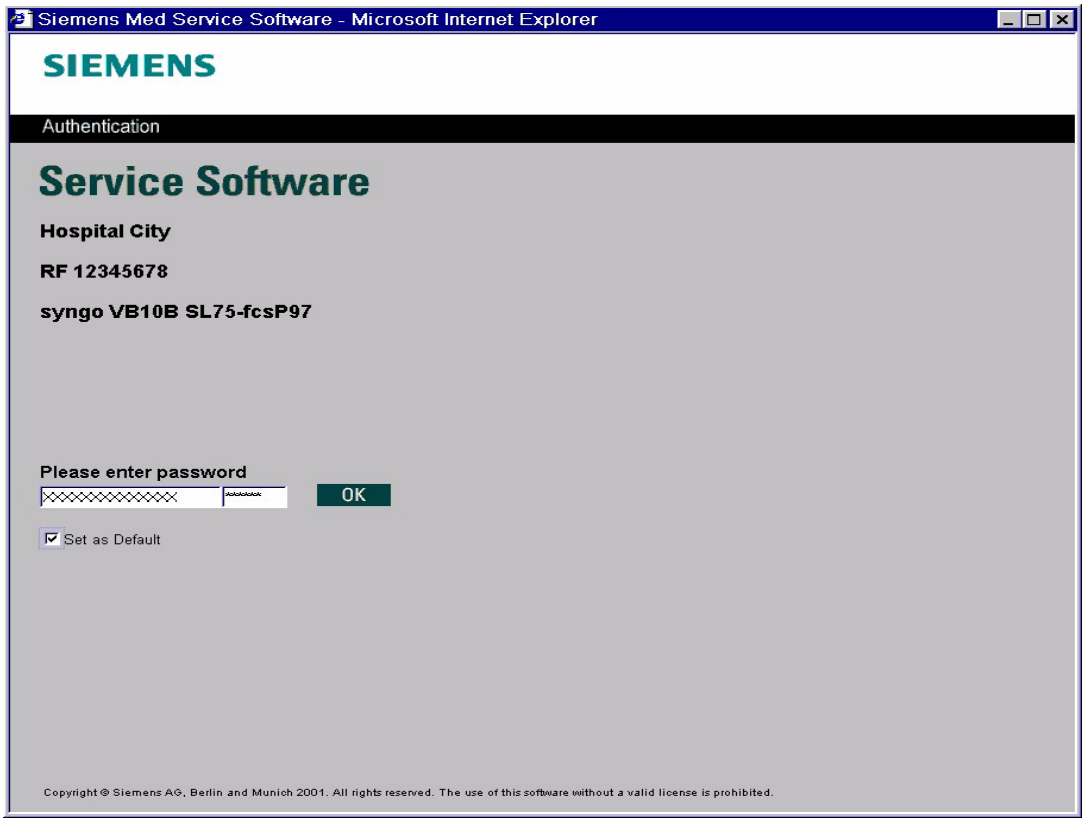
The Internet Explorer will start; the following screen will appear

Start of the Syngo service software

Start Up Check - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Print
Address C:\ASPIA\log\syngo_StartUpCheck.html
Go Links
Please enter license
Before you can start working with syngo, you need to enter a valid license key in the Local Service UI.
Click here to start the Local Service Configuration.
Done
My Computer

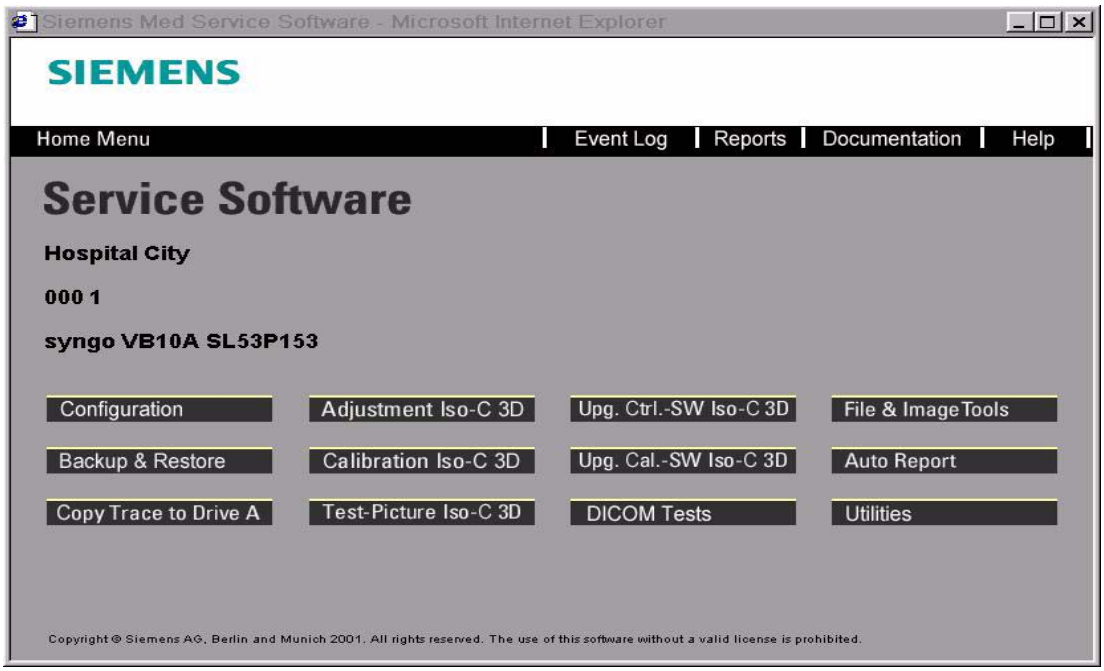
- Select the line "Click here to start the Local Service Configuration".

➪ The "Service Software" screen will appear.


Siemens Med Service Software - Microsoft Internet Explorer
SIEMENS
Authentication
Service Software
Hospital City
RF 12345678
syngo VB10B SL75-fcsP97
Please enter password
OK
Set as Default
Copyright © Siemens AG, Berlin and Munich 2001. All rights reserved. The use of this software without a valid license is prohibited.

- Enter the service key (6 characters in 2nd mask).
- Select "set as default" and confirm with <OK>.

➪ The Service Home menu appears.



Restore

- Select the **"Backup & Restore"** button in the Service Home menu**.**
- Insert the BACKUP CD-ROM into the CD-R drive.

- Select "Restore" in the "Command" list box.
- Select "CD-R" in the "Drives" lsit box.
- Select the correct (latest) "SW Settings02" backup file in "Archives".
- Mark all files in "Groups" i.e. (with Ctrl + left mouse button).
- The restore routine is started by clicking on the "Go" button.

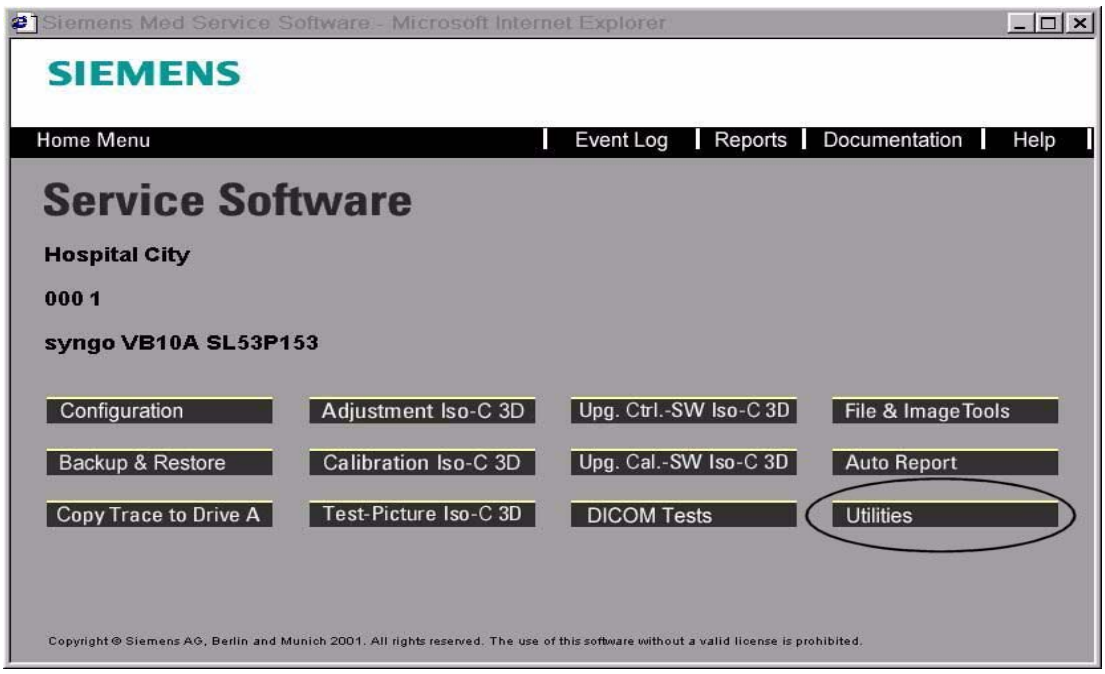
  ➪ Wait until the "Ready" message appears in the footer. This will take a few minutes.
- Exit the window with "Home".
- The PC initiates a restart automatically or you must restart it manually.
- Remove the backup CD-ROM from the CD-R drive when the system has shut down.

Monitor settings *

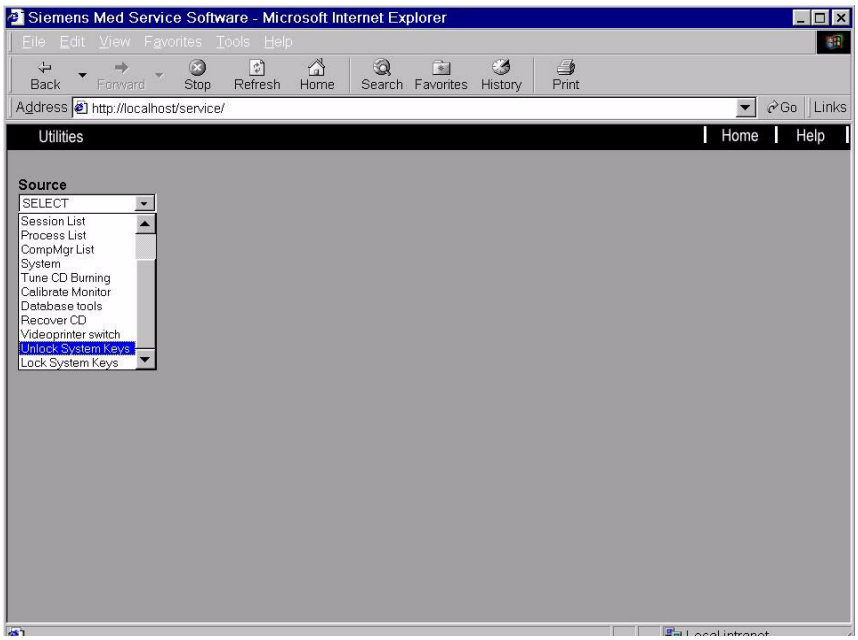
from the Syngo User Interface.

- Select "Option".
- Select "Local Service.

  ➪ The Service Home menu appear.



- Select "Utilities".



- Under "Source," select the item "Unlock system key".
- Select "OK".

* See note in section "Prerequisites", page 1-1.

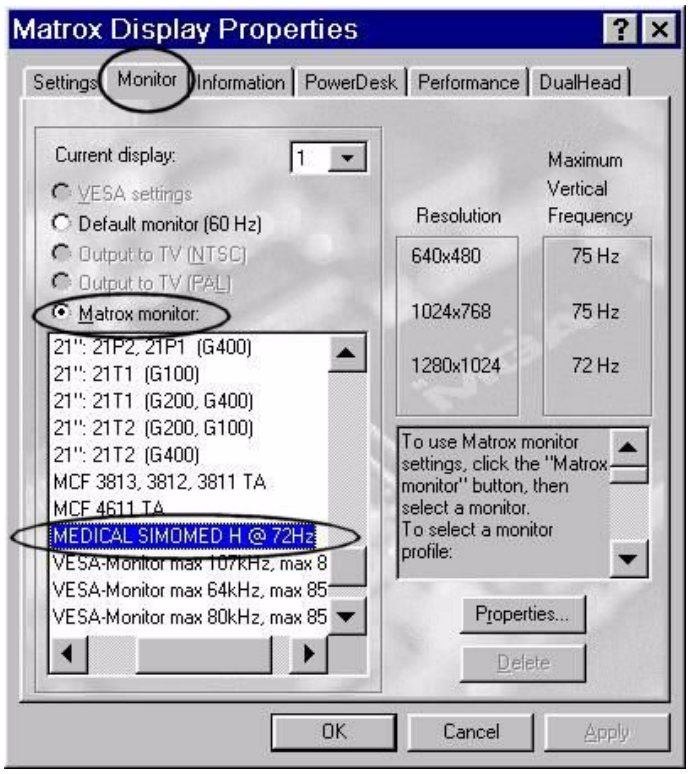
NOTE

After exiting the program, the Windows task bar is closed automatically. To display the task bar again, press the key combination "CTRL" + "ESC".

The "Matrox Display Properties" program is closed automatically after each setting and selection of the OK button. The program must be restarted for the next settings (Start - Programs - Matrox Power desk NT - Matrox Display Properties).

- Press the "CTRL" + "ESC" keys simultaneously.
- Click "Enter".

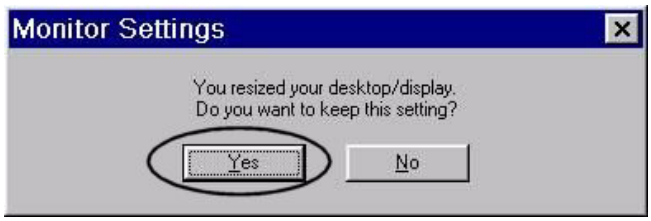
  ➪ The WINDOWS task bar will appear.
- Select "Start".
- Select "Programs".
- Select "Matrox Power Desk NT".
- Select "Matrox Display Properties".
  (If it is not displayed in front, move the other displayed window(s) to the side.)



- Select the "Monitor" button.
- Select "Matrox Monitor".
- In the selection window, select "Siemens" by double-clicking.
- Select the "Medical Simomed H @ 72 Hz" monitor.
- Select "Apply".

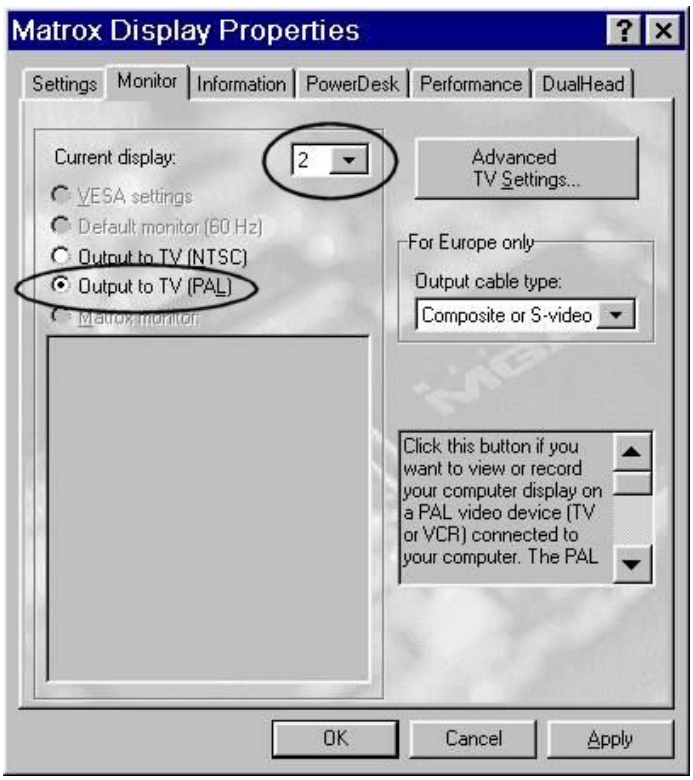
Display Properties
Windows will now resize your desktop/display.
This could take a few seconds, during which your screen might flicker.
If windows does not reappear correctly, wait 15 seconds, and your original settings will be restored.
OK

- Confirm by clicking "OK".



- Confirm the message by selecting "YES".

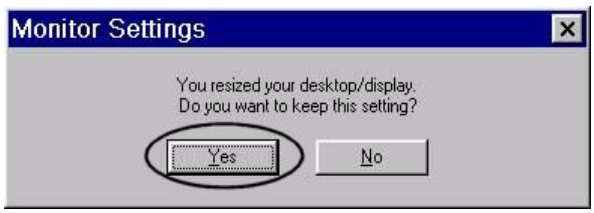
  ➪ The monitor resolution has been changed over.



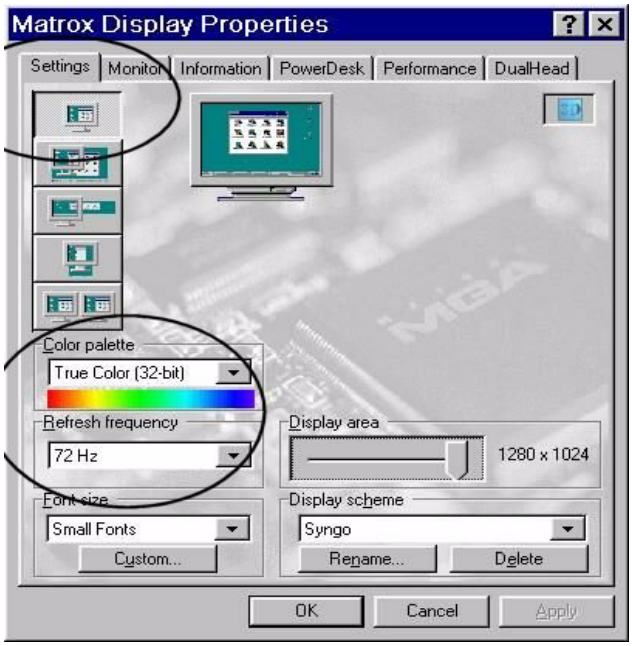
- Under "Current display", select 2.
- Select "Output to TV (PAL)".
- Confirm by clicking "Apply".

Display Properties
Windows will now resize your desktop/display.
This could take a few seconds, during which your screen might flicker.
If windows does not reappear correctly, wait 15 seconds, and your original settings will be restored.
OK

- Confirm by clicking "OK".



- Confirm by clicking "Yes".



- Select "Settings".
- Select "True Color (32-bit)".
- Select "72 Hz" refresh frequency.
- Confirm by clicking "OK", even if the other settings are correct.
- Select "Start".
- Select "Shutdown".
- Select "OK" for shutdown and wait until the WINDOWS message "It is now save to..." appears.
- Shut down the SIREMOBIL Iso C 3D and wait until the SIREMOBIL Iso C 3D has shut down completely.

Connectors *

- Connect the MEMOSKOP power plug.
- Connect the SCSI plug to the MEMOSKOP.
- Connect the DICOM Network connector at the 3D PC
- Press the video switch 1 button (to the left as viewed from the back of the monitor), the button is now depressed and hit up.
- Switch on the SIREMOBIL Iso-C 3D.

  ➪ The MEMOSKOP image will appear on the right monitor.
- Wait approx. 2 - 3 minutes until the PC has rebooted.
- Press "CTRL" + "D" to display the PC image on the right monitor.

Control software *

NOTE	**Check the installed Control SW version (Syngo menu- "Help" - "About")** **If the Control SW version VB00B is installed, it is not more needed, installing the Control SW VB00B again and you can skip this section.**

- The System is still running.
- In Syngo, select the menu "Help" / "About". Read the Control SW version. If the Contol SW version VB00B is installed, skip this section. Continue with section "Manual settings".
- In Syngo, start the local service (menu "Option" / "Local Service").
- Enter the password.
- Select the "Upgrade Ctr.SW" button.
- Insert the CD-ROM "Control Software VB00B" into the CD-R drive.
- Select the "CD-ROM" drive.
- Click on the "Go" button.
- Wait until the message "download successful" appears.
- Remove the CD-ROM from the CD-ROM drive.

  ➪ The Reconstruction PC will shut down automatically.
- Switch off the SIREMOBIL Iso-C 3D.
- Restart the SIREMOBIL Iso-C 3D.

* See note in section "Prerequisites", page 1-1.

Manual Settings *

NOTE	The changes become effective only after a reboot is performed!

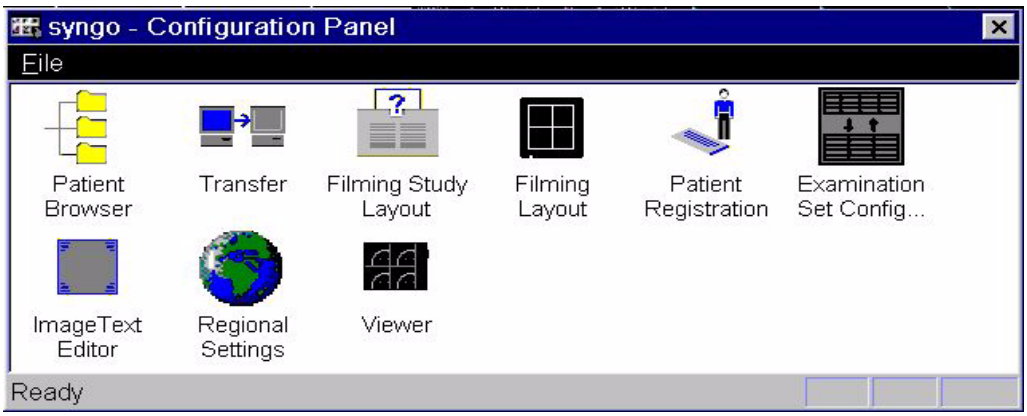
- The system is still running.
- The regional settings should be performed manually.

User Interface Language (not necessary for English) *

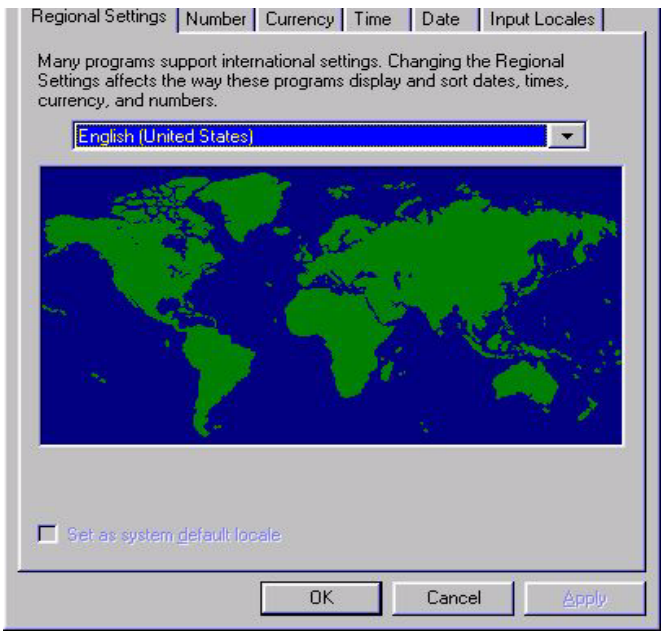
NOTE	A selection can be made between English, German, Spanish and French

- From the Viewer Interface select **"<Options> <Configuration...>".**

  ➪ The following window appears:



- Double-click on **"Regional Settings".**



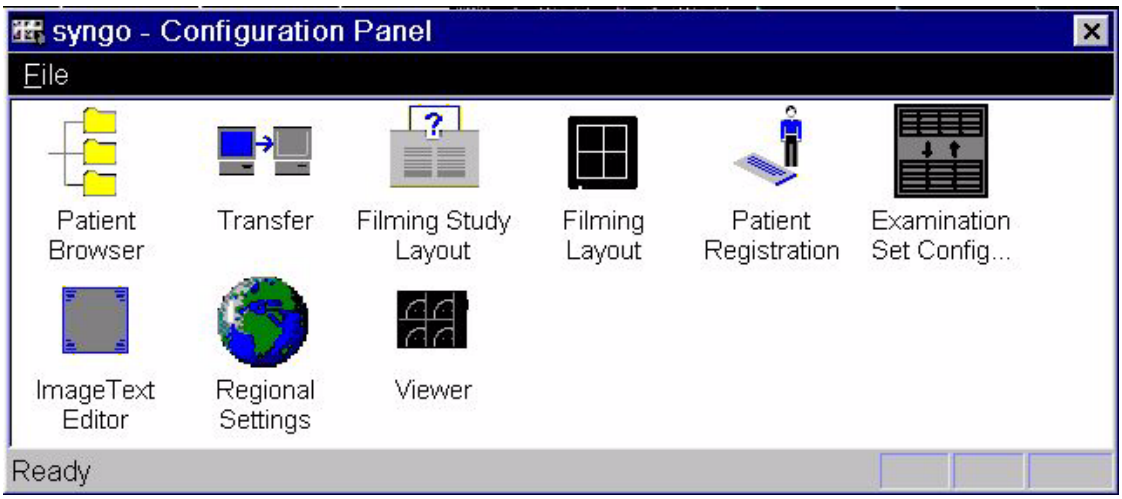
- Select the desired language here and confirm with "OK".
- Confirm the prompt for a restart with "OK" to accept the settings.

* See note in section "Prerequisites", page 1-1.

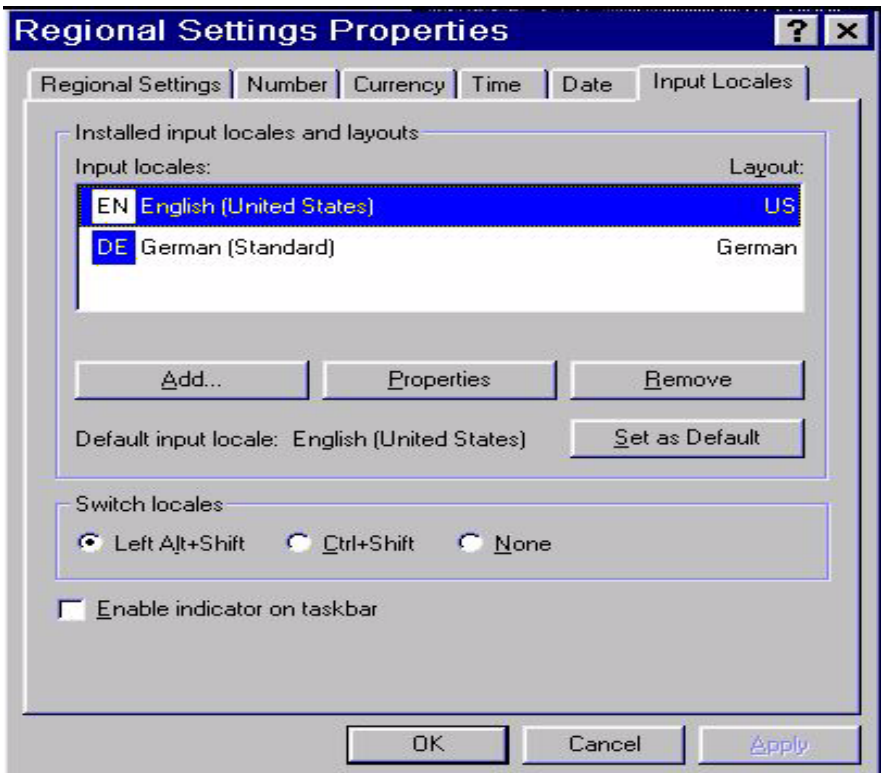
Country-specific Keyboard Layout (necessary for non US-Keyboard) *

NOTE	**It is possible to choose between an English, German and French keyboard layout.**

The following window appears:

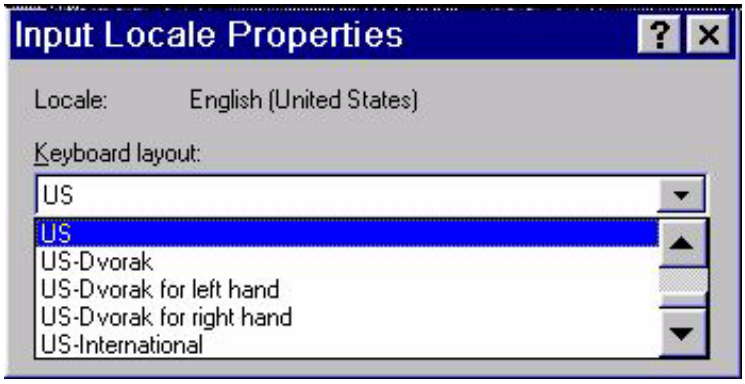


- Double-click on **"Regional Settings".**
- Select **"Input Locales".**



- Double-click on one selection.

* See note in section "Prerequisites", page 1-1.



- Select the layout that corresponds to the keyboard that has been shipped in **"Keyboard layout"**.
- Click "OK".
- Click "OK".

Installation of the MSBLAST Hotfix

NOTE	**Because the 3D reconstruction software is new installed, the section "Checking for Virus / Worm" (page 4 of the SI SP019/03/R) can be skipped.**

- Reinstall the MSBLAST worm blaster security update as described in the Service Instructions SP023/03/R.

Final work steps

Covers

- Close all covers.

System and safety tests

- Perform a final check. Check of the overall function of the system.
- Perform the Image Quality Quick Test (refer to the SIREMOBIL logbook).
- Perform the protective conductor test in accordance with ARTD - 002.731.17. The protective conductor resistance must not exceed 0.2 ohms.
- File the update instructions in the System Binder or the System Logbook.
- Fill out, and if needed, copy the attached "Update Completion Form" and insert it into Register 10 of the System Binder or System Logbook.

Customer Information

n.a.

This page intentionally left blank.

Completion Protocol / Update Completion Form

The update with the number **SP034/03/R** has been completed.

Material number: .....

Serial number: .....

Customer: ..... Functional Location: .....

Customer No.: .....

Name (CSE): ..... Telephone: .....

Country: ..... Location: .....

Date: ..... Signature: .....

Remark: .....

.....

NOTE **After completing the update, make a copy of this page, fill it out and file it in the corresponding System Binder/User Handbook.**

This page intentionally left blank.